

CLAIMS

What is claimed is:

1 1. A power supply system comprising:

2 an enclosure;

3 a power line input that passes through said enclosure;

4 a power conversion circuit connected to said power line input and housed within
5 said enclosure;

6 a power line networking signal coupling circuit connected to said power line input
7 also housed within said enclosure; and

8 a first connector connected to said power line networking signal coupling circuit,
9 said first connector adapted to mate with a second connector, said second
10 connector mounted upon a removable power line networking module, said first
11 connector and said second connector adapted to pass at least power line
12 networking signals between said power line networking signal coupling circuit
13 and said removable power line networking module.

1 2. A power supply system as claimed in claim 1, wherein said power line input is a
2 connector suitable to receive a power cord.

1 3. A power supply system as claimed in claim 1, wherein said power line networking
2 signal coupling circuit comprises a coupling capacitor and an isolation transformer.

1 4. A power supply system as claimed in claim 1, wherein said removable power line
2 networking module includes a digital connector to pass networking signals to and from a
3 host system.

1 5. A power supply system as claimed in claim 4, wherein said digital connector conforms
2 to the IEEE 802.3 Ethernet specification.

1 6. A power supply system as claimed in claim 4, wherein said digital connector conforms
2 to the Universal Serial Bus (USB) specification.

1 7. A computer system comprising:

2 a chassis;

3 at least a processor and a memory;

4 a power supply housed within an enclosure;

5 a power line input that passes through said enclosure and connects to said power
6 supply;

7 a power conversion circuit connected to said power line input and housed within
8 said enclosure;

9 a power line networking signal coupling circuit connected to said power line input
10 also housed within said enclosure; and

11 a first connector connected to said power line networking signal coupling circuit,
12 said first connector adapted to mate with a second connector, said second
13 connector mounted upon a removable power line networking module, said first
14 connector and said second connector adapted to pass power line networking
15 signals between said power line networking signal coupling circuit and said
16 removable power line networking module.

1 8. A computer system as claimed in claim 7, wherein said power line input is a connector
2 suitable to receive a power cord.

1 9. A computer system as claimed in claim 7, wherein said power line networking signal
2 coupling circuit comprises a coupling capacitor and an isolation transformer.

1 10. A computer system as claimed in claim 7, wherein said removable power line
2 networking module includes a digital connector adapted to pass networking data to and
3 from said processor.

1 11. A computer system as claimed in claim 10, wherein said digital connector conforms
2 to the IEEE 802.3 Ethernet specification.

1 12. A computer system as claimed in claim 10, wherein said digital connector conforms
2 to the Universal Serial Bus (USB) specification.

1 13. A means for providing a power supply system which can accept a power line
2 networking upgrade module comprising:
3 a means for housing said power supply system;
4 a means for providing power line input that passes through said means for
5 housing;
6 a means for converting said power line input to at least one output voltage
7 substantially housed within said housing;
8 a means for coupling to power line networking signals, said means for coupling to
9 power line networking signals connected to said means for providing power line
10 input substantially housed within said means for housing; and
11 a means for connecting to said means for coupling to power line networking
12 signals.

1 14. A means for providing a power supply system which can accept a power line
2 networking upgrade module as claimed in claim 13, wherein said means for providing
3 power line input is a connector suitable to receive a power cord.

1 15. A means for providing a power supply system which can accept a power line
2 networking upgrade module as claimed in claim 13, wherein said means for coupling to
3 power line networking signals comprises a coupling capacitor and an isolation
4 transformer.

1 16. A means for providing a power supply system which can accept a power line
2 networking upgrade module as claimed in claim 13, further comprising a means for
3 providing a power line network interface module, said power line network interface
4 module removably connected to said means for connecting to said means for coupling to
5 power line networking signals and said power line network interface module having a
6 digital connector.

1 17. A means for providing a power supply system which can accept a power line
2 networking upgrade module as claimed in claim 16, wherein said digital connector
3 conforms to the IEEE 802.3 Ethernet specification.

1 18. A means for providing a power supply system which can accept a power line
2 networking upgrade module as claimed in claim 16, wherein said digital connector
3 conforms to the Universal Serial Bus (USB) specification.

- 1 19. A power supply system comprising:
- 2 a frame;
- 3 a power line input that passes through said frame;
- 4 a power conversion circuit connected to said power line input and housed within
- 5 said frame;
- 6 a power line networking signal coupling circuit connected to said power line input
- 7 and housed within said frame; and
- 8 a first connector connected to said power line networking signal coupling circuit
- 9 adapted to pass at least power line networking signals.
- 1 20. A power supply system as claimed in claim 19, whereas said power line input is a
- 2 connector adapted to mate with a power cord.
- 1 21. A power supply system as claimed in claim 19 wherein said power line networking
- 2 signal coupling circuit comprises a coupling capacitor and an isolation transformer.
- 1 22. A power supply system as claimed in claim 19, further comprising a power line
- 2 networking module, said power line networking module having a second connector
- 3 adapted to mate with said first connector to provide a connection to said power line
- 4 networking signal coupling circuit.
- 1 23. A power supply system as claimed in claim 22, wherein said power line networking
- 2 module has a third connector adapted to connect to a system.
- 1 24. A power supply system as claimed in claim 23, wherein said third connector
- 2 conforms to the IEEE 802.3 Ethernet specification.
- 1 25. A power supply system as claimed in claim 23, wherein said third connector
- 2 conforms to the Universal Serial Bus (USB) specification.